

ABSTRACT:

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A method for assisting low-altitude navigation of an aircraft equipped with a system suited to determine a flight-plan ground trajectory based on intermediate points P at an altitude $\text{alt}(P)$, and the aircraft's performance. The method includes the following steps: for each point P , calculating a safe altitude, to obtain a point P_{safe} , calculating a safe profile formed from segments joining the points P_{safe} , extracting summits S from among the points P_{safe} , determining the aircraft's weight at these points S , for each point S , determining the maximum climb slope MaxClimbFPA and the maximum descent slope MaxDescFPA , defining two performance segments which have slopes MaxClimbFPA and MaxDescFPA on either side of the point S and calculating a performance profile formed from performance segments.